

# New York State Department of Transportation

## Yellow Flag NB2222W004

By: Sahadeo Bhagwandin  
Flag Date: March 28, 2022

Superseding Information:  
This flag supersedes: YF NB2197W029

### Structure Information

**BIN: 1065318**  
**Feature Carried:** 278I278IX2M23027  
**Feature Crossed:** 6TH AVENUE  
**Orientation:** 8 - NORTHWEST  
**Region:** 11 - NEW YORK CITY  
**County:** KINGS  
**Political Unit:** City of NEW YORK  
**Approximate Year Built:** 1962  
**Posted Load Matches Inventory :** Yes  
**Bridge Load Posting (Tons) :** Not Posted for Load  
**Primary Owner:** New York State Department of Transportation  
**Primary Maintenance Responsibility:** 12 - State - Subcontracted to another Party  
**Typical or Main Span Type:** 3 - Steel, 02 - Stringer/Multi-Beam or Girder  
This Bridge is not a Ramp  
**Number of Spans:** 322

### Verbal Notification Information

**Person Notified:** Heinz Joachim, P.E.  
**Date:** March 28, 2022 10:00:00 AM  
**Of:** NYSDOT Region 11

### Signature Information

**Signature:** Sahadeo Bhagwandin, P.E. 088239-1  
**Date:** April 12, 2022  
**Reviewed By:** Robert Kemp  
**Date:** April 12, 2022

**Attachments:** 8

### Flagged Elements

Parent Element	Element	Total Quantity	Unit
<b>Span Number : 247</b>			
	107 - Steel Open Girder/Beam	989	ft
	PR831 - Steel Beam End	42	each

### Flagged Condition Description

This Yellow Flag No. NB2222W004 is superseding Yellow Flag No. NB2197W029

Location: Span 247, Girder G19 at Pier 247

Description: The right connection angle at Girder G19 to the pier cap at Pier 247 exhibits a 5" H x 3/4" W vertical corrosion crack at the lower fillet section (no change from the previous inspection) and an 8.25" H x 3/4" W vertical corrosion crack at the upper fillet section (no change) (Photos 2 and 3). The remaining 1.25" of the connection angle height exhibits up to 90% section loss.

The left connection angle exhibits a corrosion crack at the top measuring 2" L x 1/2" W that extends to a 2.5" long crack directly below (previously noted to be 2.25" long) (Photos 4 and 5). Additionally, there is a 5" H x 1/2" W corrosion crack at lower portion of fillet. The remaining area of the connection angle exhibits up to 40% section loss.

There has been no significant changes since the previous inspection.

**Notes:**

1. The affected member, Girder G19 is a load path redundant steel girder consisting of a web depth of 19.5" inches and thickness of 0.606 inches and is located under the deck in the roadway, approximately 12" off the edge of curb line/safety walk. All dimensions were measured in the field.
2. The adjacent Girder G18, is 5'-5" on center, has repair plates and is in good condition.
3. The adjacent Stringer S2, approximately 24" on center, acts as a support for the railing and curb area above. The web of the stringer exhibits up to 15% section loss along the connection angle. The bottom flange exhibits 2.25" L x 0.75" W corrosion hole in the left angle. Overall section loss of the bottom flange is approximately 30% for 1' long section.
4. A double left lane closure on 3rd Avenue Eastbound between 22nd and 23rd streets with shadow vehicle and a 30' bucket truck is required to access the flagged location.

**Flag Photographs**

Photo Number: 1

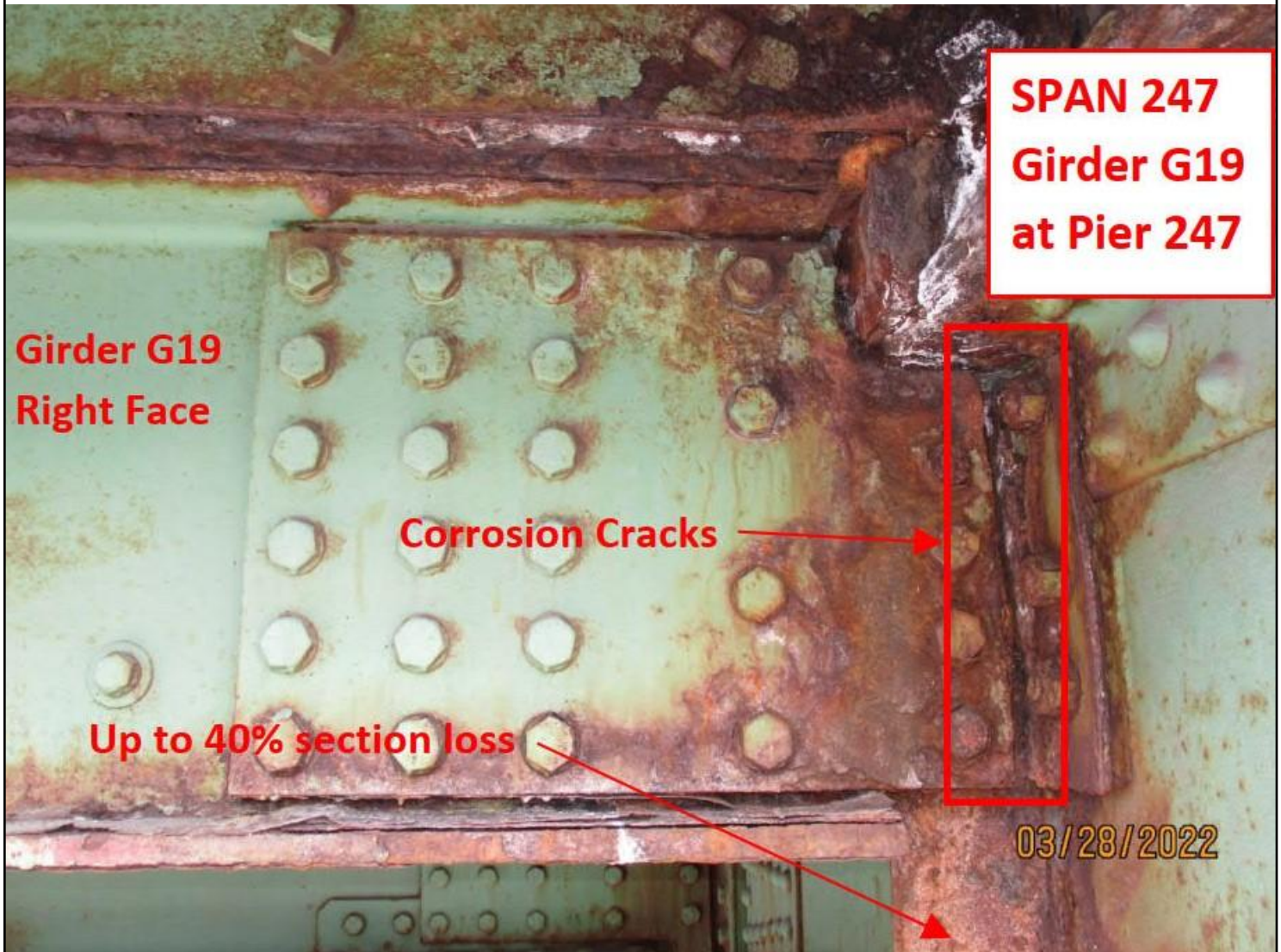
Photo Filename: Photo 1-4494 edited.jpg



**Attachment Description:** Span 247, Girder G19 at Pier 247. General view of flagged location at the pier cap connection. Looking end left.

Photo Number: 2

Photo Filename: Photo 2-4565 - edit.jpg

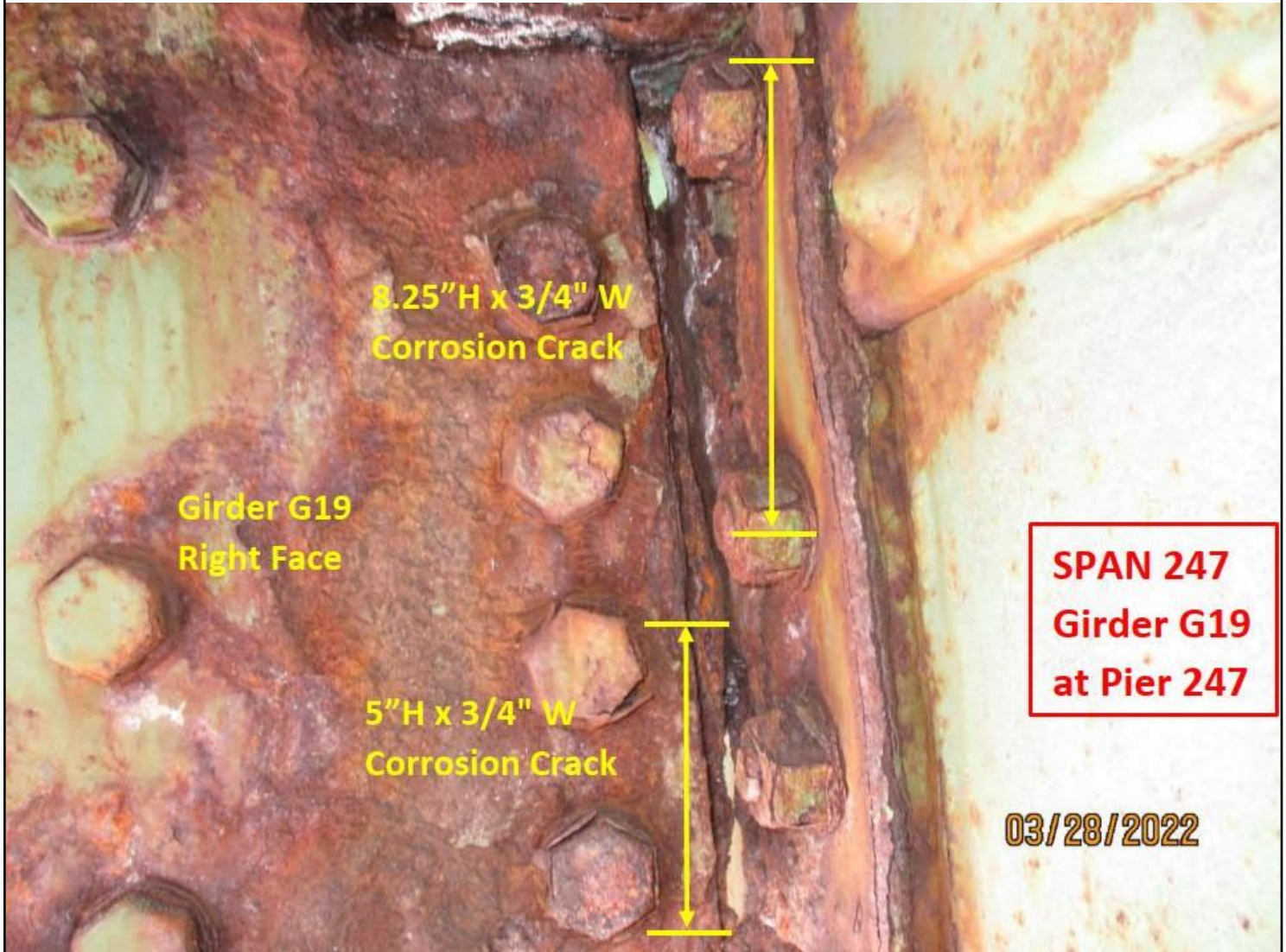


**Attachment Description:** Span 247, Girder G19 at Pier 247. Close-up view of flagged location. Looking left.



Photo Number: 3

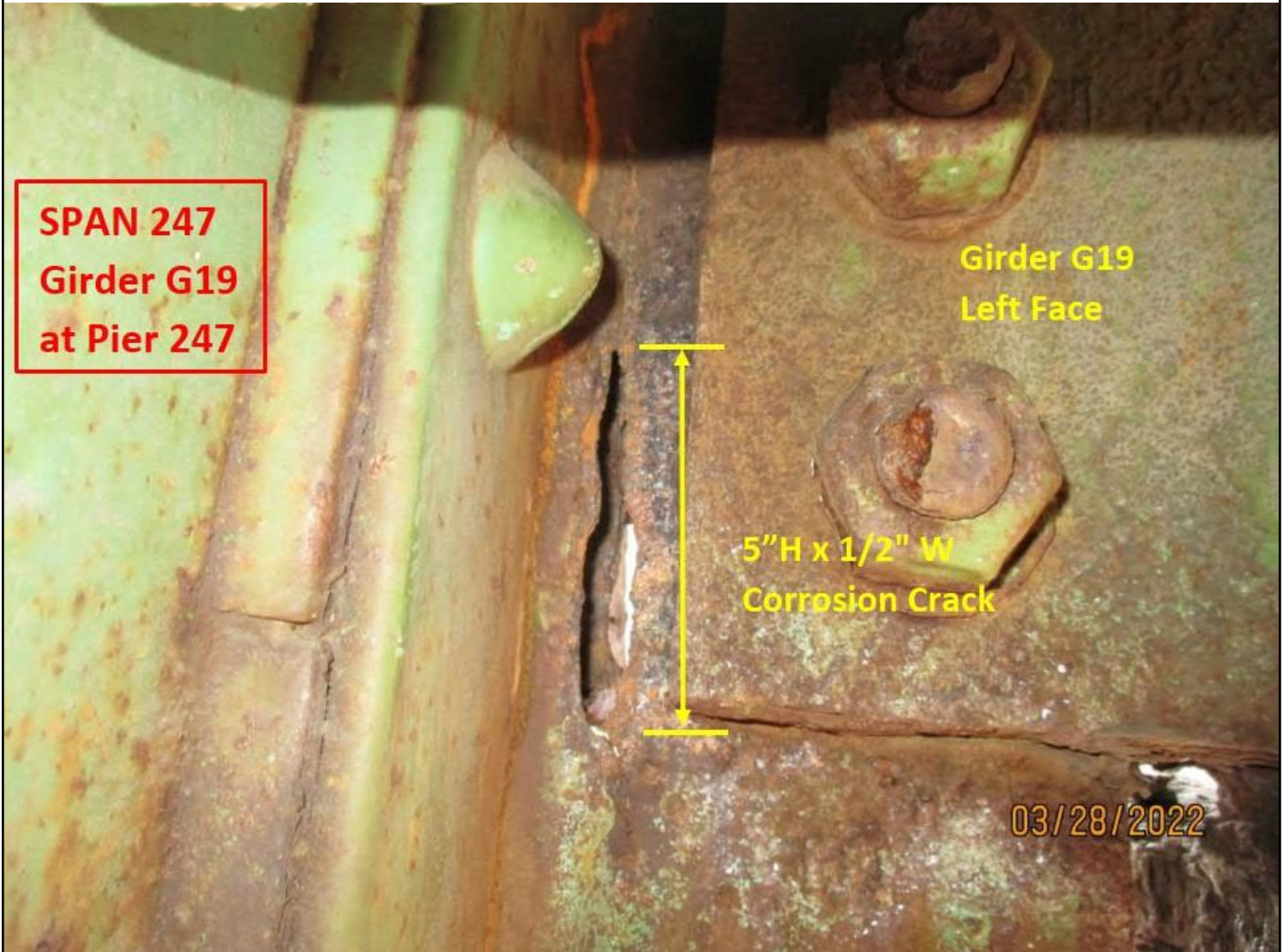
Photo Filename: Photo 3-4528.jpg



**Attachment Description:** Span 247, Girder G19 at Pier 247. Close-up view of Corrosion Cracks and heavy section loss of the right connection angle. Looking left.

Photo Number: 4

Photo Filename: Photo 4-4501.jpg

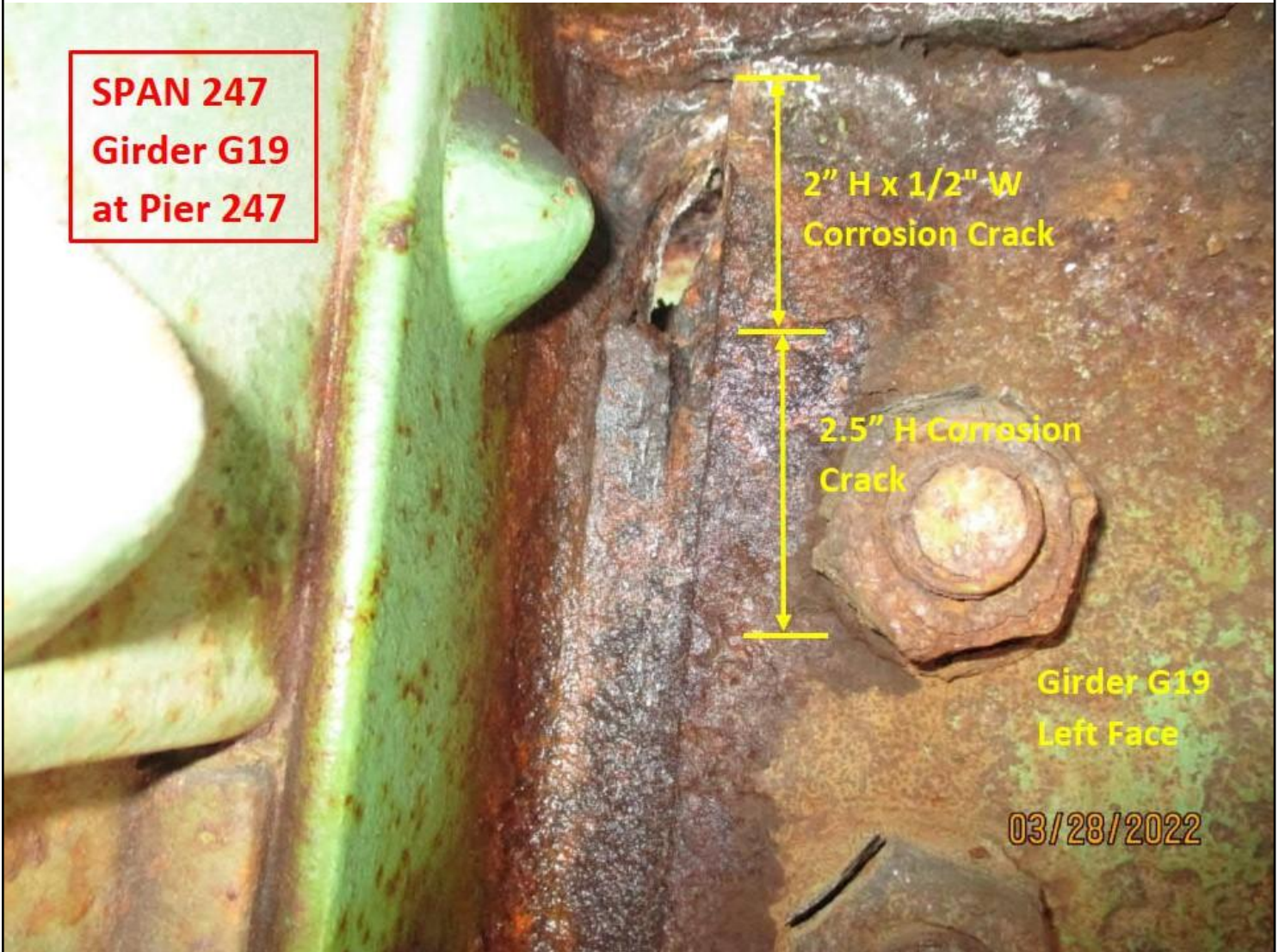


**Attachment Description:** Span 247, Girder G19 at Pier 247. Close-up view of corrosion crack and heavy section loss of the left connection angle, lower section. Looking Right.



Photo Number: 5

Photo Filename: Photo 5-4504.jpg



**Attachment Description:** Span 247, Girder G19 at Pier 247. Close-up view of corrosion crack and heavy section loss of the left connection angle, upper section. Looking Right.

Photo Number: 6

Photo Filename: Span 247 G19 at Pier 247 Looking Left Sketch--1.JPG

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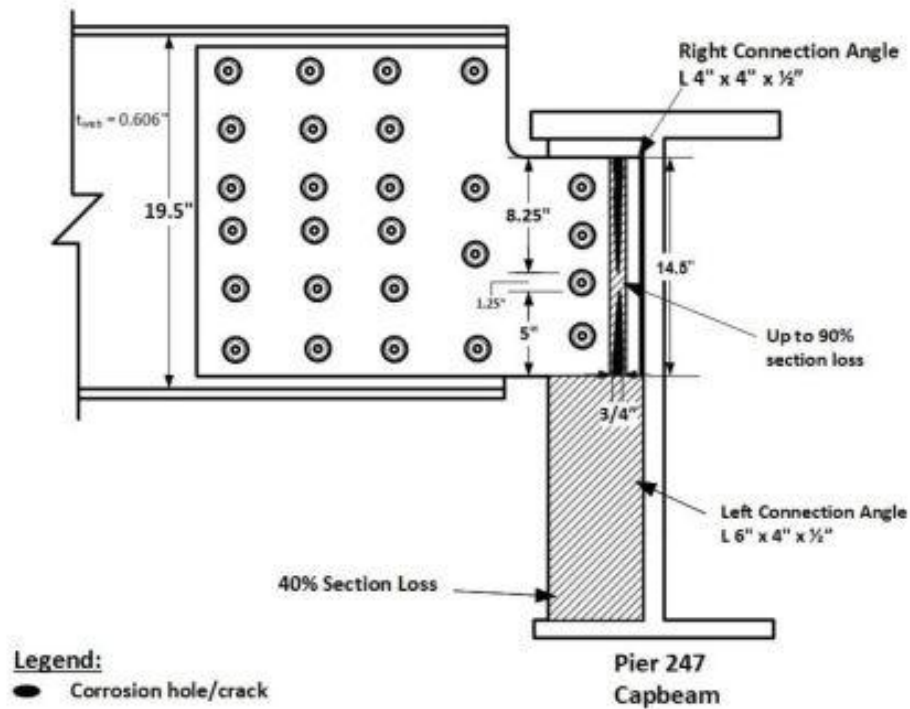
**Yellow Flag NB2222W004*****Attachment Description: Span 247 G19 at Pier 247 Sketch Looking Left***

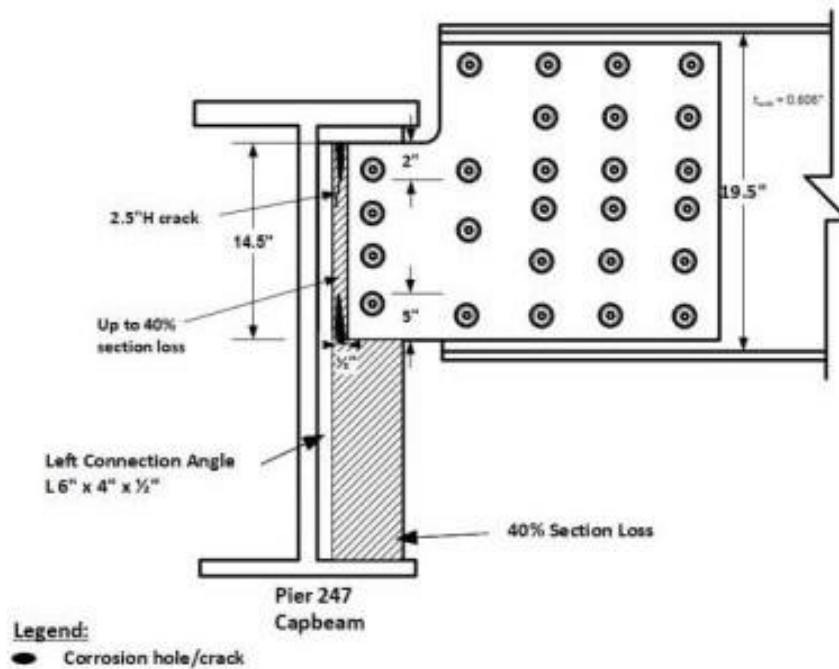


Photo Number: 7

Photo Filename: Span 247 G19 at Pier 247 Looking Right Sketch--1.

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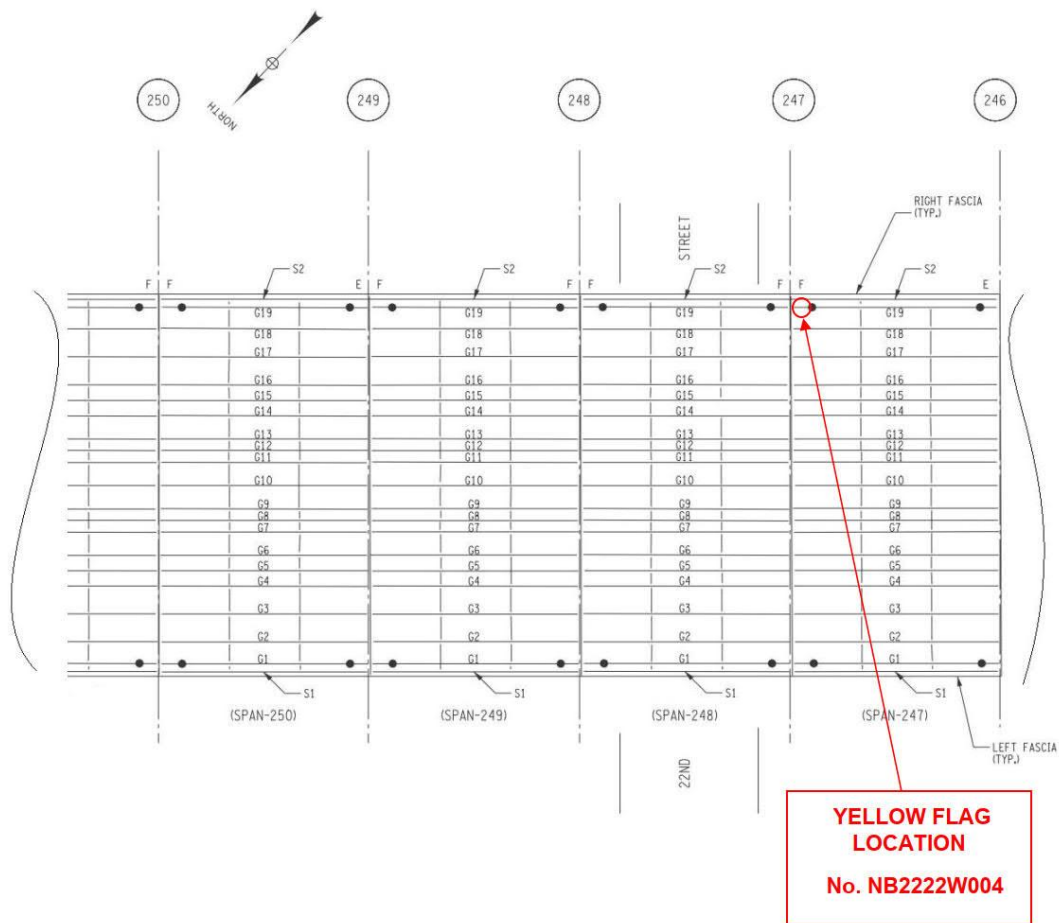
**Yellow Flag NB2222W004**

Span 247, Girder G19 at Pier 247  
(Looking Right)  
N.T.S

***Attachment Description: Span 247 G19 at Pier 247 Sketch Looking Right***

Photo Number: 8

Photo Filename: Span 247 G19 at Pier 247 Framing Plan.jpg



**Attachment Description: Span 247 G19 at Pier 247 Framing Plan**